

Answers of Assignment_4

- 1) [] is called index bracket and it is also used to store the list literals
- 2)

```
spam = [2, 4, 6, 8, 10]
spam.insert(2, "hello")
```
- 3) `spam=[int(int('3'*2)/11)]` answer is [3]
- 4) d
- 5) ['a', 'b']
- 6) 1
- 7) [3.14, 'cat', 11, 'cat', True, 99]
- 8) [3.14, 11, 'cat', True]
- 9) In concatenation one string connects with the other end of a string whereas replication includes one integer and one string.
- 10) In `append()` the element is added at the end but in `insert()` we have the freedom to insert the element at our desired index.
- 11) Pop and remove
- 12) Both of them have length
- 13) List is mutable and tuple is immutable
list is denoted by [] and tuple is denoted by ()
list consumes more memory compared to tuple
- 14) Tuple(42)
- 15) List[(1,2,3),(5,6,7)] and tuple([1,2,3],[4,5,6])
- 16) In `copy.copy()` the original object is stored and the reference address is copied.
whereas in `copy.deepcopy()` the original object and the reference copies both are stored.